

DEC 04 2006

Application No: 09/433,202

AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

1.-38. (Canceled)

39. (Currently Amended) A collection of crystalline particles comprising a compound selected from the group consisting of CeO_2 , ZrO_2 , ~~alumina~~ aluminum silicate, ~~alumina~~ aluminum titanate and mixtures thereof, and having an average primary particle diameter less than about 500 nm and less than about one in 10^6 particles having a primary particle diameter greater than about four times the average primary particle diameter wherein the particles have visible facets corresponding to the underlying crystal lattice.

40. (Previously Presented) The collection of particles of claim 39 wherein the average primary particle diameter is less than about 100 nm.

41. (Previously Presented) The collection of particles of claim 39 wherein the average primary particle diameter is from about 5 nm to about 50 nm.

42. (Previously Presented) The collection of particles of claim 39 wherein the particles comprise CeO_2 .

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43. (Previously Presented) The collection of particles of claim 39 wherein the particles comprise ZrO_2 .
44. (Currently Amended) The collection of particles of claim 39 wherein the particles comprise ~~alumina~~ aluminum titanate.
45. (Currently Amended) The collection of particles of claim 39 wherein the particles comprise ~~alumina~~ aluminum silicate.
46. (Previously Presented) The collection of particles of claim 39 wherein less than about one in 10^6 particles having a primary particle diameter greater than about three times the average primary particle diameter.
47. (Previously Presented) The collection of particles of claim 39 wherein less than about one in 10^6 particles having a primary particle diameter greater than about two times the average primary particle diameter.
48. (Previously Presented) The collection of particles of claim 39 wherein the collection of particles have a distribution of diameters of the primary particles such that at least about 95 percent of the primary particles have a diameter greater than about 40 percent of the average diameter and less than about 160 percent of the average diameter.
49. (Withdrawn) A structure comprising a coating on a substrate, the coating comprising the particle collection of claim 39.

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50. (Previously Presented) A particle dispersion comprising the particle collection of claim 39 and a liquid.
51. (Previously Presented) The particle dispersion of claim 50 having an average secondary particle size less than about 1000 nm.
52. (Previously Presented) The particle dispersion of claim 50 further comprising a surfactant.
53. (Previously Presented) The particle dispersion of claim 50 wherein the liquid comprises water.
54. (Previously Presented) The particle dispersion of claim 50 wherein the liquid comprises an organic liquid.
55. (Previously Presented) The particle dispersion of claim 50 wherein the liquid comprises a solution of water and an organic solvent.
56. (Previously Presented) The particle dispersion of claim 50 wherein the concentration of the collection of particles is less than about 30 weight percent.
57. (Previously Presented) The particle dispersion of claim 50 wherein the concentration of the collection of particles is less than about 5 weight percent.

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58. (Previously Presented) A method of polishing a surface comprising abrading the surface with a dispersion of claim 50.